

$$f(x) = f(x) = (0, +\infty)$$

$$\therefore f(x), 0_{\square}(0, +\infty)_{\square\square\square\square\square}$$

$$\therefore a \cdot \frac{\ln x + 1}{x} _{\square} (0, +\infty) _{\square \square \square \square \square}$$

$$g(x) = \frac{\ln x + 1}{x} g(x) = -\frac{\ln x}{x^2}$$

$$\therefore x \in (0,1) \underset{\square}{\square} g(x) > 0 \underset{\square}{\square} g(x)$$

$$X \in (1, +\infty) \bigcap \mathcal{G}(X) < 0 \bigcap \mathcal{G}(X) \bigcap \mathcal{G}(X)$$

$$\therefore g(x)_{mn} = g_{11} = 1_{1}$$

$$\therefore f(x) = x \ln x - \frac{1}{4}x^2 + 1 \quad f(x) = \ln x + 1 - \frac{1}{2}x$$

$$f'(x) = \frac{1}{x} - \frac{1}{2}(x > 0)$$

$$f'(x) > 0$$

$$X < 2$$

$$\begin{smallmatrix} & f(x) & (0,2) & 0 & f(x) & (2,+\infty) \\ & & & & \end{smallmatrix}$$

$$\int_{0}^{1} f_{2} = \ln 2 > 0$$
 $f(\frac{1}{e}) = -\frac{1}{2e} < 0$ $f(\vec{e}) = 3 - \frac{1}{2}\vec{e} < 0$

$$\therefore 0 < x < x_{\square} f(x) < 0 f(x) = 0$$

$$X_1 < X < X_2 \bigcap f(X) > 0 \bigcap f(X)$$

$$X > X_2 \square \square f(X) < 0 \square f(X) \square \square$$

$$f_{\boxed{04}} = \ln 4 - 1 > 0_{\boxed{0}} f(\vec{e}) < 0_{\boxed{0}} \cdot \cdot \cdot 4 < X_2 < \vec{e}_{\boxed{0}}$$

$$\therefore -1 < lnx_1 < -ln2_1 2 ln2 < lnx_2 < 2_1$$

$$\therefore 3\ln 2 < \ln x_2 - \ln x_1 < 3$$

$$2002021 \cdot 000000000 f(x) = hx_0 g(x) = a(x-1)_{000} a \in R_0$$

$$0100 a = 100000 X > 100 f(x) < g(x)$$

$$h(x) = f(x) - g(x) = hx - a(x - 1)h'(x) = \frac{1}{x} - 1 = \frac{x - 1}{x}$$

$$\Box^{h(X)}\Box^{[1}\Box^{+\infty)}\Box\Box\Box$$

$$000 X > 100 h(x) < h_{010} = 0000 X > 100 f(x) < g(x)$$

$$C(x) = 1 - ax^2 e^x 0 < a < \frac{1}{e}$$

$$G(\ln\frac{1}{a}) = 1 - a(\ln\frac{1}{a})^2 \frac{1}{a} = 1 - (\ln\frac{1}{a})^2 \frac{1}{a} < 0$$

$${}_{\square} G(x) = 0_{\square} (0, +\infty)_{\square \square \square \square \square \square} F(x) = 0_{\square} (0, +\infty)_{\square \square \square \square \square}$$

$$\lim_{\Omega \to 0} X_0 = 1 < X_0 < \ln \frac{1}{a}$$

$$\sum_{X \in (0, X_0)} F(X) = \frac{G(X)}{X} > \frac{G(X_0)}{X} = 0$$

$$\lim_{n\to\infty} F(x_n) > F_{n+1} = 0 \lim_{n\to\infty} F(x_n) \Big((x_n + \infty) \Big) = 0$$

$$\begin{cases} F(x) = 0 & \int ax^2 e^{x_0} = 1 \\ F(x) = 0 & \int hx = a(x_1 - 1)e^{x_1} \end{cases}$$

$$\ln \chi = \frac{X_1 - 1}{X_0^2} e^{x_1 - x_0} \qquad e^{x_1 - x_0} = \frac{X_0^2 \ln X_1}{X_1 - 1}$$

$$000 X > 100 hX < X - 100 X > X_0 > >$$

$$e^{X-X_0} < \frac{X_0^2(X_1 - 1)}{X - 1} = X_0^2$$

$$0000000 \ln e^{\chi - x_0} < \ln \chi^2_{0000} \chi - \chi_0 < 2\ln \chi < 2(\chi - 1)_{000}$$

$$0003x - x_1 > 2$$

$$0100 a > -1_{0000} f(x)_{00000}$$

$$200 \stackrel{a>0}{=} 0 \qquad f(x) = \frac{3}{e} - x \\ 00000000 \stackrel{X_1}{=} \frac{X_2(X_1 < X_2)}{0000} \\ X_1 + e > X_2 + \frac{1}{e} \\ 0$$

$$f(x) = a(\ln x + 1) - \frac{a+1}{x} \quad f'(x) = \frac{a}{x} + \frac{a+1}{x^2} = \frac{ax + (a+1)}{x^2}$$

$$0 = a \cdot 0 = X > 0 = f'(x) > 0 = f(x) = 0$$

$$0 - 1 < a < 0$$

$$g(x) = f(x) + x - \frac{3}{e_{00}}g'(x) = f(x) + 1_{0}$$

$$0010000^{(0,+\infty)}00^{\mathcal{G}(X)}00000$$

$$g(\frac{1}{e}) = -\frac{a}{e} + (a+1) + \frac{1}{e} - \frac{3}{e} = a(1 - \frac{1}{e}) + (1 - \frac{2}{e}) > 0$$

$$g(1) = 1 - \frac{3}{e} < 0$$

$$g(e) = ae - (a+1) + e - \frac{3}{e} = a(e-1) + (e-1 - \frac{3}{e}) > 0$$

 $4002021 \cdot 00000000000 f(x) = mxdnx \cdot (m+1)lnx \cdot f(x) \cdot 000 f(x) \cdot 0000$

0100000 f(X)00000

$$2000 m > 0 0000 f(x) = \frac{3}{e} - x$$

$$20000000 A(x_0, y_1) B(x_2, y_2)(x_1 < x_2) 0000$$

$$X_2 + \frac{1}{e} < x_1 + e$$

$$f(x) = minx + mx \times \frac{1}{x} - \frac{m+1}{x} = minx + m - \frac{m+1}{x}$$

$$h(x) = m h x + m - \frac{m+1}{x}$$

$$h'(x) = \frac{m}{x} + \frac{m+1}{x^2} = \frac{mx + m+1}{x^2}$$

$$m.0$$
 $f(x)$ $(0,+\infty)$

$$F(x) = f(x) - g(x) = nx/nx - (m+1)/nx + x - \frac{3}{e_0}$$

$$F(x) = m \ln x + m \cdot \frac{x+1}{x} + 1 = \varphi(x)$$

$$\varphi'(x) = \frac{m}{x} + \frac{m+1}{x^2} > 0$$

$$\operatorname{OOD} F(\mathbf{X}) _{\square}(0,+\infty) _{\operatorname{OOOOO}} F_{\square 1} = 0_{\square}$$

X	(0,1)	1	(1,+∞)
F(x)	-	0	+
F(x)			

$$F_{\boxed{1}}$$
=1- $\frac{3}{e}$ = $\frac{e$ - $3}{e}$ < 0

$$F(\frac{1}{e}) = m\frac{e-1}{e} + \frac{e-2}{e} > 0 = m(e-1) + \frac{e(e-1)-3}{e} > 0$$

$$00000010^{0} \quad f(x) + g(x) = 10^{x} \text{ }$$

$$f(-x) + g(-x) = 10^{-x}$$

$$\therefore f(-x) = -f(x) \underset{\square}{\circ} g(-x) = g(x)$$

:.-
$$f(x) + g(x) = 10^{-x}$$

$$f(x) = \frac{1}{2}(10^{x} - \frac{1}{10x}) \quad g(x) = \frac{1}{2}(10^{x} + \frac{1}{10^{x}})$$

$$g(x) + g(x_{2}) = \frac{1}{2}(10^{x_{1}} + \frac{1}{10^{x_{2}}}) + \frac{1}{2}(10^{x_{2}} + \frac{1}{10^{x_{2}}})$$

$$= \frac{1}{2}(10^{x_{1}} + 10^{x_{2}}) + \frac{1}{2}(\frac{1}{10^{x_{1}}} + \frac{1}{10^{x_{2}}}) \dots \frac{1}{2} 2\sqrt{10^{x_{1}} \times 10^{x_{2}}} + \frac{1}{2} \times 2\sqrt{\frac{1}{10^{x_{1}}}} \frac{1}{10^{x_{2}}}$$

$$= 10^{\frac{x_{1} + x_{2}}{2}} + \frac{1}{10^{\frac{x_{1} + x_{2}}{2}}} = 2g(\frac{x_{1} + x_{2}}{2})$$

$$=\frac{(10^{x_1+x_2}+1)((10^{x_1}+10^{y_2})}{2(10^{x_1+x_2})}-\frac{10^{x_1}+10^{y_2}+1}{10^{\frac{x_1+x_2}{2}}}$$

$$=\frac{(10^{x_1+x_2}+1)(10^{x_1}+10^{x_2}-2110^{\frac{x_1+x_2}{2}})}{2110^{xx_1+x_2}}\dots\frac{(10^{x_{s-x_2}}+1)(2\sqrt{10^{x_1}110^{x_2}}-2110^{\frac{x_1+x_2}{2}})}{2110^{x_1+x_2}}=0$$

$$g(x_1) + g(x_2)...2g(\frac{x_1 + x_2}{2})$$

$$\therefore f(x_1 - x_2) = \frac{1}{2} (10^{x_1 - x_2} - \frac{1}{10^{x_1 - x_2}})$$

$$= \frac{1}{2} (\frac{10^{x_1}}{10^{x_2}} - \frac{10^{x_2}}{10^{x_1}})$$

$$=\frac{1}{4}(10^{x_1+x_2}+\frac{10^{x_1}}{10^{x_2}}-\frac{10^{x_2}}{10^{x_1}}-\frac{1}{10^{x_1+x_2}})-\frac{1}{4}(10^{x_1+x_2}-\frac{10^{x_1}}{10^{x_2}}+\frac{10^{x_2}}{10^{x_1}}-\frac{1}{10^{x_1+x_2}})$$

$$=\frac{1}{4}(10^{x_1}-\frac{1}{10^{x_1}})(10^{x_2}+\frac{1}{10^{x_1}})-\frac{1}{4}(10^{x_1}+\frac{1}{10^{x_1}})(10^{x_2}-\frac{1}{10^{x_2}})$$

$$= f(x)g(x_2) - g(x)f(x_2)$$

$$g(x + x_2) = \frac{1}{2}(10^{x_1 + x_2}) + \frac{1}{2} \left[\frac{1}{10^{x_1 + x_2}} \right] = g(x)g(x_2) - f(x)f(x_2)$$

$$f(x) = \frac{1}{2} a e^{2x} - x^2 - ax$$

$$0100 a = 100000 g(x) = f(x) + x^2 000000$$

$$0 < a < \frac{4}{e^{j} - 1} = 0$$

$$f(x) = \frac{1}{2}e^{2x} - x^2 - x$$

$$g(x) = f(x) + x^2 = \frac{1}{2}e^{2x} - x$$

$$g(x) = e^{2x} - 1$$

$$\bigcup_{i \in \mathcal{G}(\vec{X})} g'(\vec{X}) > 0 \bigcup_{i \in \mathcal{X}} X > 0 \bigcup_{i \in \mathcal{X}} g'(\vec{X}) < 0 \bigcup_{i \in \mathcal{X}} X < 0 \bigcup_{i \in \mathcal{$$

on
$$\mathcal{G}(\mathbf{X})$$
 and the second of $(0,+\infty)$ and the second of $(-\infty,0)$ and

$$f(x) = \frac{1}{2} a e^{x} - x^{2} - ax$$

$$R_{0} f(x) = a e^{x} - 2x - a$$

$$R_{0} f(x) = a e^{x} - 2x - a$$

$$0000 f(x) 000000 X_0 X_1(x_1 < x_2) 0$$

$$h(X_1) = h(X_2) = 0$$

$$h(x) = 2ae^{x} - 2 \frac{1}{100}h(x) > 0 \frac{1}{1000}x > \frac{1}{2}\ln\frac{1}{a} \frac{1}{1000}h(x) < 0 \frac{1}{1000}x < \frac{1}{2}\ln\frac{1}{a} \frac{1}{1000}$$

$$X < \frac{1}{2} ln \frac{1}{a} X_2 > \frac{1}{2} ln \frac{1}{a}$$

$$0 < a < \frac{4}{e^{d} - 1} = \frac{1}{2} ln \frac{1}{a} > \frac{1}{2} ln \frac{e^{d} - 1}{4} > 0$$

$$\prod h(0) = 0 \qquad x = 0$$

$$0000 X_2 - X_1 > 2_{000} X_2 > 2_{0000} h_{020} < 0_0$$

$$0 < a < \frac{4}{\dot{\mathcal{C}} - 1}$$

$$= ae^{a} - 4 - a = a(e^{a} - 1) - 4 < \frac{4}{e^{a} - 1}(e^{a} - 1) - 4 < 4 - 4 = 0$$

$$X_2 - X_1 > 2$$

$$f(x) = e^{x} - \frac{1}{2}ax^{2} - x$$

010000
$$f(x)$$
 0 R 0000000 a 000

$$\int f(x_2) = 0 \quad \text{and} \quad \frac{e^{y_2} - 1}{X_2}$$

$$h(x) = \frac{e^{x} - 1}{X}(x > 0) \prod_{x \in X} h(x) = \frac{e^{x}(e^{x} + x - 1)}{x^{2}}$$

$$a = \frac{e^{y_1} - 1}{X_2} \prod_{0 \in \mathbb{N}} f(x_2) = (1 - \frac{x_2}{2})e^{y_2} - \frac{x_2}{2}$$

$$f(x_2) < 1 + \frac{\sin x_2 - x_2}{2}$$
 (1 - $\frac{x_2}{2}$) $e^{x_2} < 1 + \frac{\sin x_2}{2}$

$$2 - X_2 - \frac{2 + \sin X_2}{e^{y_2}} < 0$$

$$\varphi(X) = 2 - X - \frac{2 + \sin X}{e^x}$$

$$\varphi'(x) = \frac{2 + \sin x - \cos x}{e^x} - 1 \quad \varphi''(x) = \frac{2(\cos x - 1)}{e^x},, \quad 0$$

$$\bigcap \varphi'(x) \bigcap \bigcap \varphi'(x) < \varphi'(0) = 0 \bigcap$$

$$\mathsf{DD}^{\varphi(\mathbf{X})} \mathsf{D}^{(0,+\infty)} \mathsf{DDDDDD}$$

8002021
$$\bigcirc \bullet$$
 00000000 $f(x) = 2xhx_0$ $g(x) = x^2 + ax - 1_0$ $a \in R_0$

olooooo
$$X \in [1_0^{+\infty}]$$
 oooo $f(X)$,, $g(X)$ ooooo a ooooo

$$\lim_{n\to\infty} h(x) = f(x) - 2a_{n \mid 3} \lim_{n\to\infty} X_{n \mid X_{n} \mid X_{n$$

$$\lim_{\Omega \to \Omega} X_1 + X_2 > \frac{2}{e_{\Omega}}$$

$$a.2\ln x - x + \frac{1}{x}(x.1) \prod_{n=1}^{\infty} F(x) = 2\ln x - x + \frac{1}{x}(x.1) \prod_{n=1}^{\infty} a.F(x)_{max}$$

$$F(x) = \frac{2}{x} - 1 - \frac{1}{x^2} = \frac{-x^2 + 2x - 1}{x^2} = -\frac{(x - 1)^2}{x^2} < 0$$

$${\scriptstyle \square \square }^{a_{\square \square \square \square \square \square } [0} {\scriptstyle \square }^{+\infty)} {\scriptstyle \square }$$

$$00000 \ f(x),, \ g(x) \\ 000000 \ 2xlnx - \ x^2 - \ ax + 1,, \\ 0 \\ 0000 \ x \in [1_{\square} + \infty) \\ 0000$$

$$F(x) = 2\ln x + 2 - 2x = 2\ln x - (x - 1), 0 = F(x) = 0$$

$$F(x)$$
, $F_{010} = 0_{000} 2x \ln x - x^2 - ax + 1$, $2x \ln x - x^2 + 1$, 0_{0000}

00000
$$a_{000000}^{[0_0+\infty)}$$
 0

00000
$$f(x)$$
,, $g(x)$ 00000 $2xinx$ - $x^2 + 1$,, ax

$$00 X.1_{0000} y = 2xhx - x^2 + 1_{000000000} y = ax_{0000}$$

$${\scriptstyle \square \square }{\scriptstyle a}{\scriptstyle \square \square \square \square \square \square }{\scriptstyle \square }{\scriptstyle [0}{\scriptstyle \square }{\scriptstyle +\infty)}{\scriptstyle \square }$$

$$\lim_{x \to 0} \int f(x) = 0 \quad |f(x)| = 2a_0$$

$$\int f(x) = 2\ln x + 2 \int f(x) > 0 \int \frac{x}{e}$$

$$\int f(x) < 0 \quad 0 < x < \frac{1}{e}$$

$$= f(x) = (\frac{1}{e'} + \infty) = (0, \frac{1}{e}) = (0, \frac{1$$

$$\int f(\frac{1}{e}) = -\frac{1}{e}$$

$$f_{010} = 0_{000} h(x)_{0000}$$

$$a \in (0, \frac{1}{e}) \quad 0 < x_1 < \frac{1}{e} < x_2 < 1 < x_3$$

$$F(x) = -2\ln x - 2x \cdot \frac{1}{x} - 2\ln (\frac{2}{e} - x) + 2(\frac{2}{e} - x) \cdot \frac{-1}{(\frac{2}{e} - x)} = -2\ln x - 2\ln (\frac{2}{e} - x) - 4 = -2\ln (\frac{2}{e} - x) - 4$$

$$0 < x < \frac{1}{e} \qquad x(\frac{2}{e} - x) < \frac{1}{e} \qquad F(x) > 0 \qquad F(x) \qquad (0, \frac{1}{e}) \qquad ($$

$$F(\chi) < F(\frac{1}{e}) = 0 \qquad f(\chi) < f(\frac{2}{e} - \chi) \qquad \chi \in (0, \frac{1}{e}) \qquad \frac{2}{e} - \chi \in (\frac{1}{e}, 1) \qquad \frac{2}{e} = 0 \qquad \frac{2}{e} - \chi \in (\frac{1}{e}, 1) \qquad \frac{2}{e} = 0 \qquad \frac{2}{e} - \chi \in (\frac{1}{e}, 1) \qquad \frac{2}{e} = 0 \qquad$$

$$\int f(x_1) = f(x_2) = 2a_{000} f(x_2) < f(\frac{2}{e} - x_1) \int x_2 > \frac{2}{e} - x_1$$

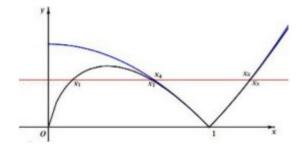
$$X + X_2 > \frac{2}{e}$$

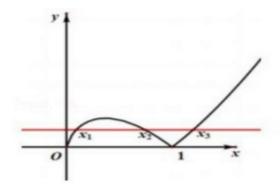
$$0 = \frac{x^2 - 1}{2} = 0 < x, 1 = 0, \frac{x^2 - 1}{2} = 0 < x, 1 = 0, \frac{x^2 - 1}{2}, xhx$$

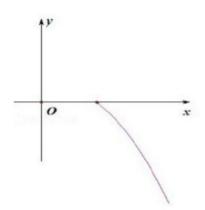
$$|x \ln x|, |\frac{x^2-1}{2}|$$

$$\lim_{n \to \infty} y = \frac{x^2 - 1}{2} \Big|_{x \to 0 \text{ document}} x_4 = x_5(x_4 < x_5) = 0$$

$$X_{3} - X_{2} > X_{3} - X_{4} \square \square X_{4} = \sqrt{1 - 2a} \square X_{5} = \sqrt{1 + 2a} \square$$







0100000 ^{f(x)}00000

$$200 \frac{lnm}{m} = lnm + \frac{1}{n} = lnm + \frac{1}{n} = n > 2$$

$$(0,+\infty), \ f(x) = 1 + \frac{1}{x^2} - \frac{2a}{x} = \frac{x^2 - 2ax + 1}{x^2}$$

$$0 = x^2 - 2ax + 1 = 0 = 4a^2 - 4 = 4(a+1)(a-1) = 0$$

$$X \in (0,+\infty), \ f(X) = \frac{g(X)}{X^2}..0$$

$$= \int_{\mathbb{R}^n} f(x) e^{(0,+\infty)} = 0$$

$$(ii)_{\square \triangle} > 0_{\square \square} a < -1_{\square} a > 1_{\square}$$

①
$$a < -1$$
 $g(x) = x^2 - 2ax + 1..0$ $x \in (0, +\infty), \ f(x) = \frac{g(x)}{x^2}..0$

②
$$\Box a > 1_{\Box\Box\Box} x^2 - 2ax + 1 = 0_{\Box\Box\Box} \alpha = a - \sqrt{a^2 - 1}, \beta = a + \sqrt{a^2 - 1}_{\Box\Box}$$

$$0 = (0, a - \sqrt{\vec{a} - 1}) \cup (a + \sqrt{\vec{a} - 1}, +\infty) \cap f(\vec{x}) > 0$$

$$(a - \sqrt{\vec{a} - 1}, a + \sqrt{\vec{a} - 1}) \prod f(x) < 0$$

$$0000 \; f(\vec{x})_{\,\,\Box}(0,a \text{--} \sqrt{\vec{a} \text{--} 1})_{\,\,\Box}(a \text{+-} \sqrt{\vec{a} \text{--} 1},+\infty)_{\,\,\Box}(0,a \text{--} \sqrt{\vec{a} \text{--} 1})_{\,\,\Box}(a \text{+-} \sqrt{\vec{a} \text{--} 1},+\infty)_{\,\,\Box}(a \text{+-} \sqrt{\vec{a} \text{--} 1},$$

$$(a - \sqrt{a^2 - 1}, a + \sqrt{a^2 - 1})$$

$$0000 \, a_{\!\scriptscriptstyle M} \, 1_{\,00} \, f(x) \, 0^{(0,+\infty)} \, 000000$$

$$\lim_{n \to \infty} \frac{1}{n} = \lim_{n \to \infty} \frac{1}{n} = \lim_{n \to \infty} \frac{1}{n} = \frac{1}{n} + \frac{1}{n} (m, n > 0)$$

$$\square$$
 lnn- lnn> $0_{\square\square\square}$ m> n> 0_{\square}

$$\lim_{n \to \infty} \lim_{n \to \infty} \lim_{n \to \infty} \lim_{n \to \infty} \lim_{n \to \infty} \frac{m+n}{n} = \frac{\frac{m}{n}+1}{m}$$

$$\frac{m}{n} = t \qquad t > 1, lnt = \frac{t+1}{m}$$

$$m = \frac{t+1}{\ln t}, n = \frac{t+1}{t \ln t}$$
 $m = \frac{t-1}{t \ln t}$

$$m-n>2$$
 $t-1 > 2$, $(t=\frac{m}{n}>1)$

$$: t - \frac{1}{t} > 2 Int(t > 1)$$

$$0.10000 a = 100 f(x) = x - \frac{1}{x} - 2hx (0, +\infty)$$

$$000 t > 10 f(t) > f_{01000} f_{010} = 0 000 t - \frac{1}{t} > 2ht(t > 1) 000 t - \frac{1}{t} > 2ht(t > 1)$$

$$f(x) = \frac{1}{2}(x-1)(e^{x}-1)$$

$$20000 f(x) = a_{0000000} x_0 x_2 0000 |x - x_2|, \frac{2ea}{e-1} + 1$$

$$f(x) = \frac{1}{2}[(e^x - 1) + (x - 1)e^x] = \frac{1}{2}(xe^x - 1)$$

$$\therefore f_{\boxed{1}} = \frac{1}{2} (e \cdot 1) f_{\boxed{1}} = 0$$

$$y = \frac{1}{2}(e^{-1})(x^{-1})$$

$$f(x) = \frac{1}{2}(xe^x - 1)$$

$$f(0) = \frac{1}{2} \int_{0}^{\infty} f(1) = \frac{1}{2} (e^{-1}) > 0 \int_{0}^{\infty} f(x) = \frac{1}{2} (xe^{x} - 1) \int_{0}^{\infty} (0,1) \int_{0}^{\infty} (0,1) dx$$

$$f(x) = \frac{1}{2}(xe^{x} - 1)$$

$$0 0 0 0 0 0 0 \begin{pmatrix} (-\infty, X_1) & (X_1 & +\infty) & 0 0 0 0 0 \end{pmatrix} X_1 < X_2$$

$$g(x) = f(x) - \frac{1}{2} (e^{-1})(x - 1) \xrightarrow{X \in (X_{\square} + \infty)} g(x) = \frac{1}{2} (xe^{x} - e)$$

$$\square^{X \in (1,+\infty)} \square \square^{\mathcal{G}(X)} > 0_{\square} \mathcal{G}(X) \square \square$$

$$\therefore g(x) = 0 \qquad f(x) - \frac{1}{2}(e^{-1})(x^{-1}) \cdot 0$$

$$a = f(x_2) ... \frac{1}{2} (e-1)(x_2-1) X_2 \frac{2a}{e-1} + 1$$

$$f(x)_{0} = 0$$

$$f(x)... - \frac{1}{2}x = f(x_1)... - \frac{1}{2}x_1 = x_2... - 2a_1$$

$$|X - X_2|_{,,,} \frac{2a}{e-1} + 1 + 2a = \frac{2ea}{e-1} + 1$$

11002021 • 000000000000 $f(x) = lnx - ax(a_{00000})$

 $0100 \ ^{a} > 1_{00000} \ ^{f(x)} 000000$

$$f(x) = \frac{1}{x} - a = \frac{1 - ax}{x} (x > 0)$$

$$0 < x < \frac{1}{a} = 0 < x < \frac{1}{a} = 0 < x < \frac{1}{a} = f(x) > 0 = f(x) = 0$$

$$\therefore g'(x) = \frac{2(x^2 - ax + 1)}{x} = 0$$

$$1 \quad a \cdot \frac{3\sqrt{2}}{2} \quad \exists \quad a \cdot \Delta = \vec{a} - 4 > 0$$

$$\therefore X_1 + X_2 = a_{\prod} X_1 X_2 = 1_{\prod}$$

$$1 \quad t = \frac{\ln x_1 - \ln x_2}{x_1 - x_2}$$

$$\therefore y = (x_1 - x_2)(\frac{2}{x_1 + x_2} - \frac{\ln x_1 - \ln x_2}{x_1 - x_2}) + \frac{2}{3}$$

$$= \frac{2(x_1 - x_2)}{x_1 + x_2} - \ln \frac{x_1}{x_2} + \frac{2}{3}$$

$$=2 \cdot \frac{\frac{X}{X_{2}} - 1}{\frac{X}{X_{2}} + 1} - \ln \frac{X}{X_{2}} + \frac{2}{3}$$

$$0000000 (X_1 + X_2)^2 = X_1^2 + 2X_1X_2 + X_2^2 = \vec{a}_0^2$$

$$\frac{X_1^2 + 2X_1X_2 + X_2^2}{X_1X_2} = m + \frac{1}{m} + 2 = a^2$$

$$a \cdot \frac{3\sqrt{2}}{2} \therefore m + \frac{1}{m} = a^2 - 2 \cdot \frac{5}{2}$$

$$\therefore m, \frac{1}{2} \underline{\qquad} m.2 \underline{\qquad} 0 < m, \frac{1}{2} \underline{\qquad}$$

$$h(m) = 2 \cdot \frac{m \cdot 1}{m + 1} - \ln m + \frac{2}{3} \cdot h(m) = \frac{-(m \cdot 1)^2}{n(m + 1)^2} < 0$$

$$\therefore H(m) = 0 < m, \frac{1}{2} = 0$$

$$\therefore y_{min} = H(n)_{min} = H(\frac{1}{2}) = H(2)$$

 $000000100 f(x) = (x+2)e^{x} - 1_{0}$

$$f(-1) = \frac{1}{e} - 1 \qquad f(-1) = 0$$

$$\int f(x) \int (-1_{0} f(-1)) \int \frac{1-e}{e} (x+1)$$

$$200000100 f(x) = (-1_0 f(-1)) = (x + 1)$$

$$F(x) = f(x) - s(x) = (x+1)(e^{x} - \frac{1}{e})$$

$$F(x) = (x+2)e^{x} - \frac{1}{e_{\square}}F'(x) = (x+3)e^{x}_{\square}$$

$${\color{red}_{\bigcirc}} F(\mathbf{X}) {\color{red}_{\bigcirc}} ({\color{red}^{-}} \infty, {\color{red}^{-}} 3) {\color{red}_{\bigcirc}} {\color{red}_{\bigcirc}} {\color{red}_{\bigcirc}} ({\color{red}^{-}} 3, {\color{red}^{+}} \infty) {\color{red}_{\bigcirc}} {\color{red}$$

$$F(-3) = -\frac{1}{e^{-1}} - \frac{1}{e^{-1}} = 0$$

$$\prod X \to -\infty \prod F(X) < 0$$

$$\Gamma^{F(-1)=0}$$

$$\int f(x) = b_{00} S(x) = b_{00} \frac{1 - e}{e} (x + 1) = b$$

$$X = \frac{eb}{1 - e} - 1 \qquad X' = \frac{eb}{1 - e} - 1$$

$$\ \, \bigcirc \stackrel{\mathcal{S}(X)}{=} R_{\square \square \square \square \square \square \square \square} \stackrel{X',, X_{\square}}{=}$$

$$G(x) = (x+2)e^x - 3e_{\Box}G'(x) = (x+3)e^x_{\Box}$$

$$G(x)$$
 $(-\infty, -3)$ $(-\infty, -3)$ $(-3, +\infty)$ $(-3, +\infty)$

$$G(-3) = -\frac{1}{e^{-3}} - 3e < 0$$

$$\square^{X \to \ -\infty} \square \square^{G(X) < 0} \square^{G(X) = 0}$$

$$\operatorname{do} G(x) \dots G_{\operatorname{do} 1 \operatorname{do}} = 0$$

$$(3e-1)x-e-1=b_{00}x_{2}'=\frac{e+1+b}{3e-1}_{0}$$

$$b=t(x_{2}')=f(x_{2})...t(x_{2})_{0}$$

$$\begin{smallmatrix} t(\lambda) & R_{00000000} & X_{2},, & X_{2} \end{smallmatrix}$$

$$X_2 - X_1, X_2 - X_1 = 1 + \frac{b + e + 1}{3e - 1} + \frac{eb}{e - 1}, 2$$

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